



Energy Efficiency Strategy

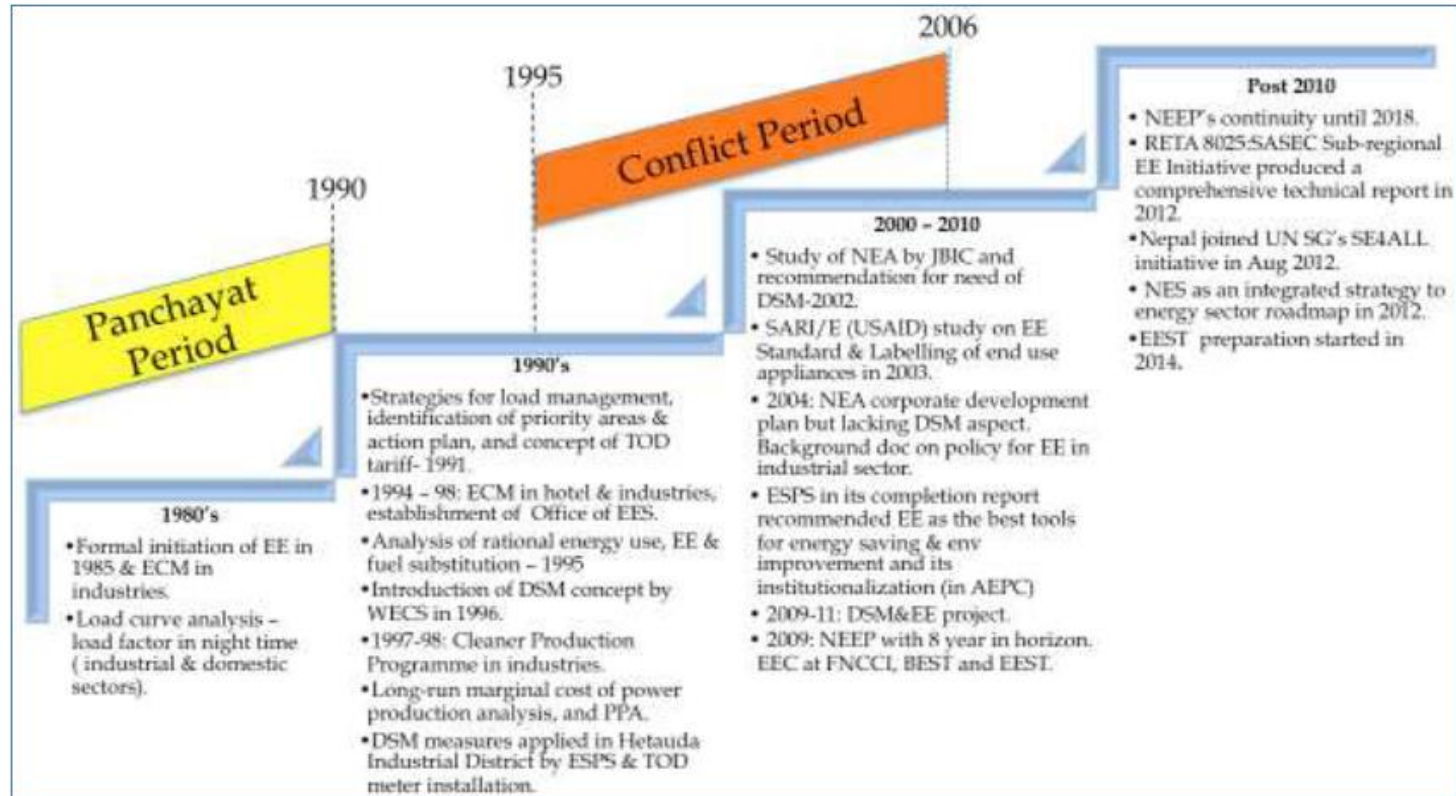
SAARC Workshop

Techniques on Energy Conservation & Efficiency in Buildings

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Dambulla, Sri Lanka

Suresh Shrestha
MOICS
Government of Nepal

Evolution of EE Initiatives in Nepal



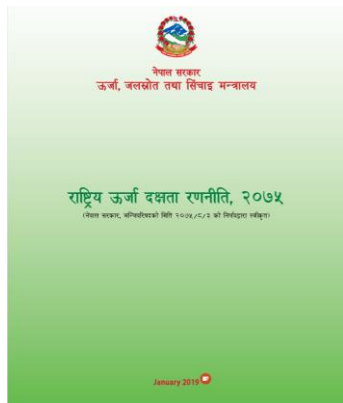
Present Situation

- ⊙ Nepal's per capita electricity consumption 190 Kwh
- ⊙ Energy intensity is twice the South Asia average
- ⊙ 22 percent of total energy consumption fulfilled by modern energy sources
- ⊙ Weak and vulnerable energy security (Increasing import of fossil fuels and also electricity)

EE can be one of the measures to address current condition of energy poverty and overdependence on energy imports

- ⊙ Lack of awareness
- ⊙ Lack of policy, legal and institutional framework
- ⊙ Energy system excludes EE

Background



Article 51 (f) 3 of
the Constitution
of Nepal

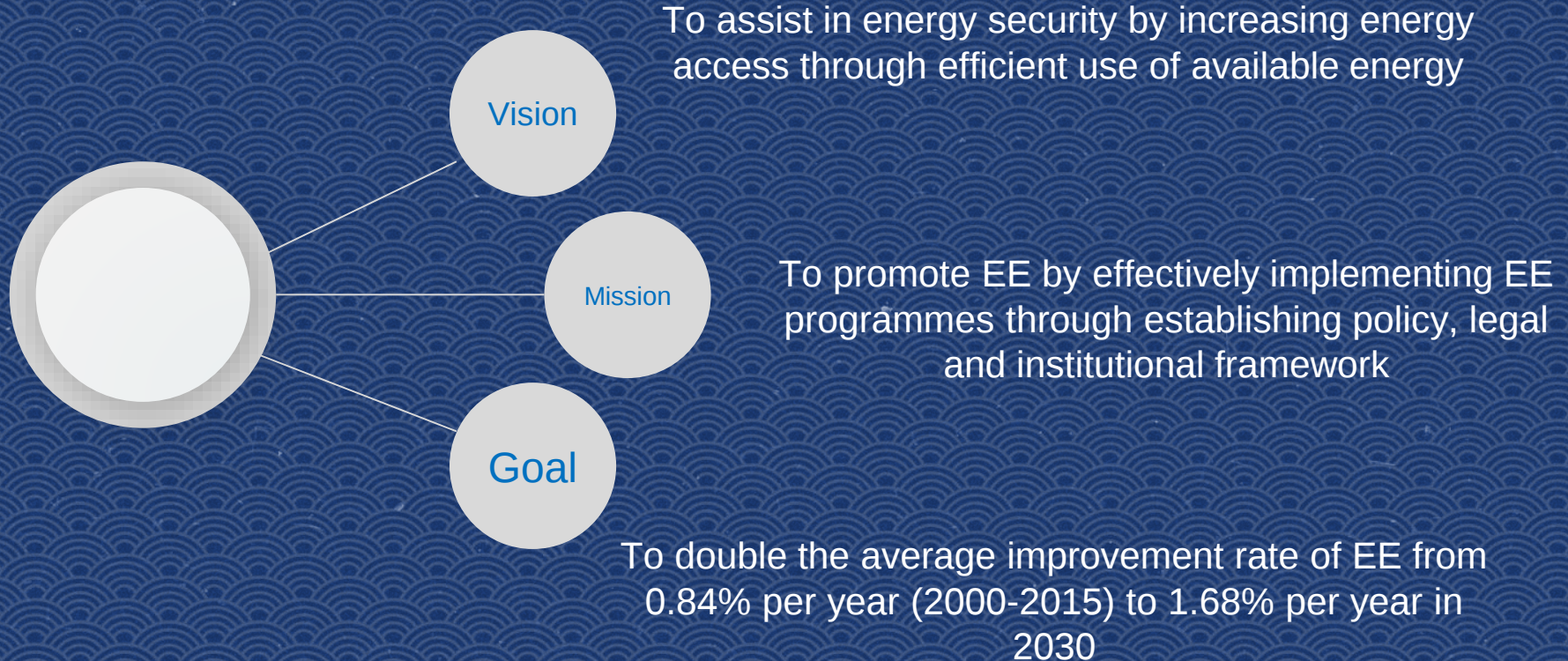
SDG

SE4All

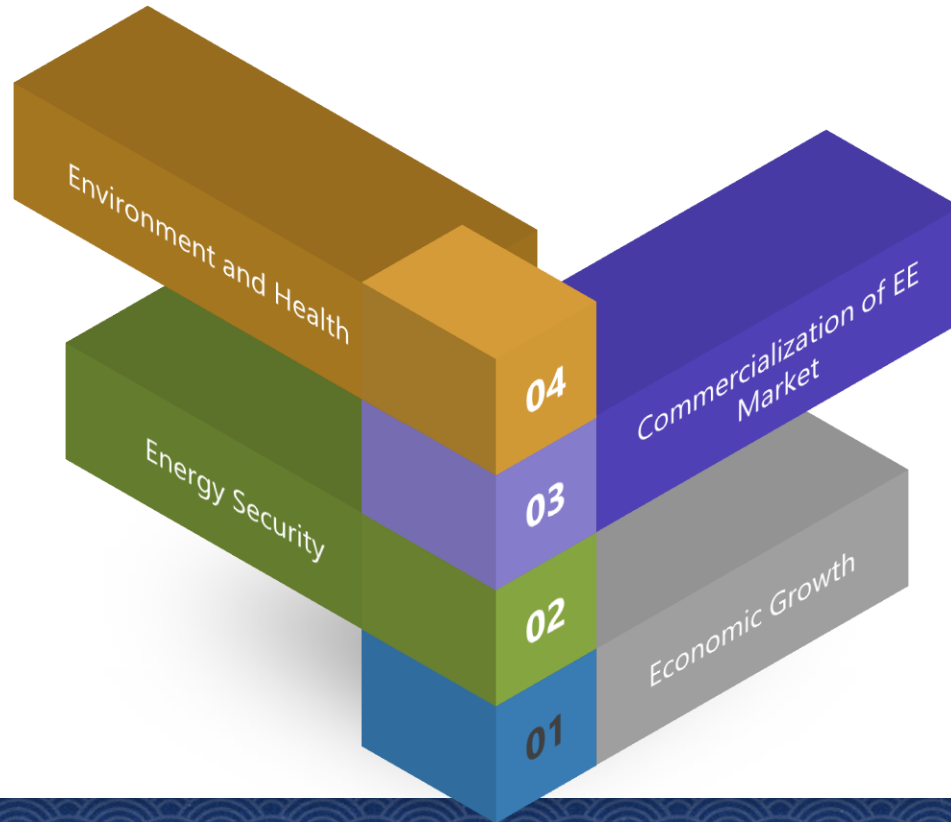
Challenges

- One fourth population still outside the reach of modern energy sources
- Supply vulnerability
- Reduction in foreign currency reserves due to existing dependence on energy import

Vision Mission Goal



Objectives



Opportunities

Attractive financial return with lower investment

EE is more cheaper than energy generation

Assist in trade imbalance in the country by reducing energy import

More employment opportunities

Increase energy access

Ensure energy security

Minimization of the effects climate change

5

Strategies

1

Generate Awareness

2

Establish policy, legal and institutional framework

3

Develop National Standards for EE

4

Make production cost effective and competitive

5

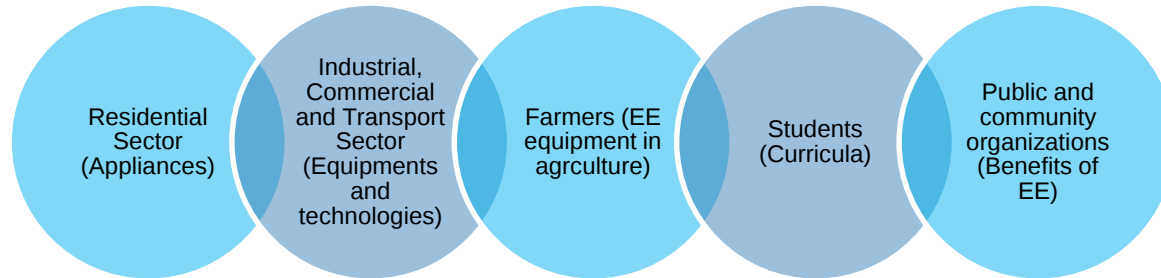
Reduce energy import

1

Generate Awareness

**Generate
awareness of
EE from the
consumer's
level to
policymaker's
level**

Conduct Awareness Campaigns targeting



**Establish Policy,
Legal and
institutional
frameworks for
resources
management,
resources
mobilization,
infrastructure
development and
human resources
development for
EE**

2

**Establish policy, legal and
institutional framework**

Designate EE
entity for
promotion and
implementation
of EE

Establish EE
cell in all
ministries

Carry out
research on EE
&DSM and
promote EE
technologies

HR
development,
Commercializat
ion & market
expansion for
EES

Develop National Standards for EE based on established international & regional standards as well as to develop equipments and means for measuring EE



3

Develop National Standards for EE

**Make services
and production
cost
competitive by
reducing
energy
consumption**

4

**Make production cost
effective and competitive**

Institutionalize EE by
developing National
Energy Efficiency
Action Plan

Identify large scale
electricity consumers
and conduct EA

Conduct Energy
Auditors training and
establish accreditation
system

Develop minimum
energy performance
standards for electrical
and mechanical
equipment

Conduct EA in
industrial, commercial
and public sectors

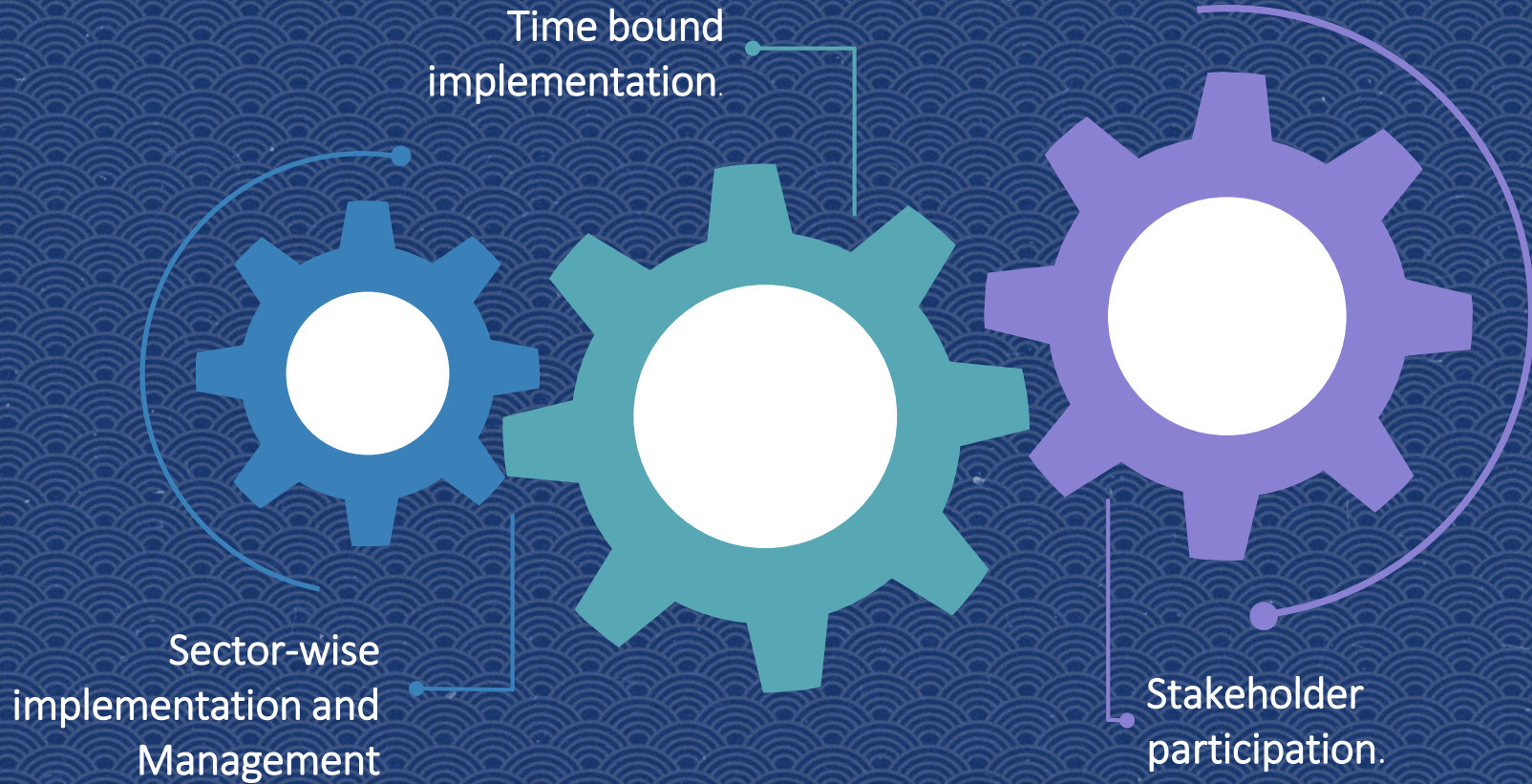
Reduce energy import through EE

5

Reduce energy import

Reduce fossil
fuel imports by
utilizing energy
saved through
EE

Reduce peak
demand
through DSM



Implementation of strategy

EE entity for
Promotion, development,
implementation
Coordination
National EE Action Plan

Institutional Structure

Public
Private
TA from IDP

Financial Aspect

Focus on Research
Educational inst.
Research agencies

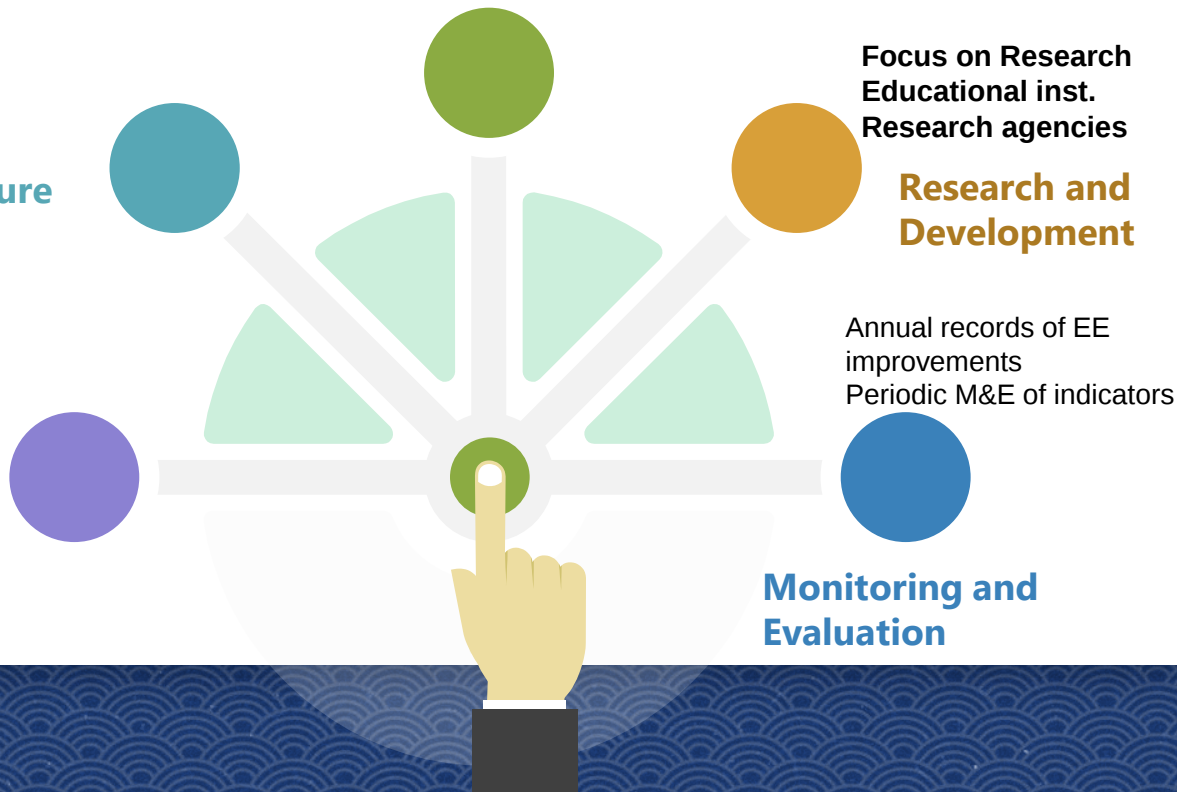
Research and Development

Annual records of EE
improvements
Periodic M&E of indicators

Monitoring and Evaluation

EXecutive
Orders
Acts
Regulations

Legal Aspect





THANKS!
Any questions?

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